#8

RAW SEQUENCE LISTING DATE: 10/04/2001
PATENT APPLICATION: US/09/535,364 TIME: 17:45:42

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\10042001\I535364.raw

<110> APPLICANT: Cell Signaling Technology, Inc.
COMB, Michael J.
TAN, Yi
<120> TITLE OF INVENTION: PRODUCTION OF MOTIF-SPECIFIC AND CONTEXT-INDEPENDENT ANTIBODIES USING
PEPTIDE LIBRARIES AS ANTIGENS
<130> FILE REFERENCE: CST-138 CIP
<140> CURRENT APPLICATION NUMBER: US 09/535,364
<141> CURRENT FILING DATE: 2000-03-24
<150> PRIOR APPLICATION NUMBER: US 09/148,712
<151> PRIOR FILING DATE: 1998-09-04
<160> NUMBER OF SEQ ID NOS: 87
<170> SOFTWARE: PatentIn version 3.1
<210> SEQ ID NO: 1
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<220> FEATURE:
<221> NAME/KEY: MOD_RES
<222> LOCATION: (9)..(9)
<223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 9 is phosphorylated
<400> SEQUENCE: 1
Ile Lys Asp Gly Ala Thr Met Lys Thr Phe Cys Gly Thr Pro
1 5 10
<210> SEQ ID NO: 2
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<220> FEATURE:
<221> NAME/KEY: MOD_RES
<222> LOCATION: (5)..(5)
<223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 5 is phosphorylated
<400> SEQUENCE: 2
Asp Ala Ala Val Thr Pro Lys Lys Arg His Leu Ser Lys Cys
1 5 10
<210> SEQ ID NO: 3
<211> LENGTH: 15
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<220> FEATURE:
<221> NAME/KEY: MOD_RES
<222> LOCATION: (8)..(8)
<223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 8 is phosphorylated
<400> SEQUENCE: 3
Asp Thr Gln Ile Lys Arg Asn Thr Phe Val Gly Thr Pro Phe Cys
1 5 10 15
<210> SEQ ID NO: 4
<211> LENGTH: 10

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76 <213> ORGANISM: Homo sapiens
78 <220> FEATURE:
79 <221> NAME/KEY: MOD_RES
80 <222> LOCATION: (5)..(5)
81 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 5 is phosphorylated
84 <400> SEQUENCE: 4
86 His Gln Val Val Thr Arg Trp Tyr Arg Cys
87 1               5                   10
90 <210> SEQ ID NO: 5
91 <211> LENGTH: 10
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <220> FEATURE:
96 <221> NAME/KEY: MOD_RES
97 <222> LOCATION: (7)..(7)
98 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 7 is phosphorylated
101 <400> SEQUENCE: 5
103 His Gln Val Leu Met Lys Thr Val Cys Gly
104 1               5                   10
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 14
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
112 <220> FEATURE:
113 <221> NAME/KEY: MOD_RES
114 <222> LOCATION: (7)..(7)
115 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 7 is phosphorylated
118 <400> SEQUENCE: 6
120 Ile Pro Ile Arg Val Tyr Thr His Glu Val Val Thr Leu Cys
121 1               5                   10
124 <210> SEQ ID NO: 7
125 <211> LENGTH: 15
126 <212> TYPE: PRT
127 <213> ORGANISM: Homo sapiens
129 <220> FEATURE:
130 <221> NAME/KEY: MOD_RES
131 <222> LOCATION: (8)..(8)
132 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 8 is phosphorylated
135 <400> SEQUENCE: 7
137 Gly Val Pro Val Arg Thr Tyr Thr His Glu Val Val Thr Leu Cys
138 1               5                   10                  15
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 15
143 <212> TYPE: PRT
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146 <220> FEATURE:
147 <221> NAME/KEY: MOD_RES
148 <222> LOCATION: (8)..(8)
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149 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 8 is phosphorylated
152 <400> SEQUENCE: 8
154 Asn Gln Val Phe Leu Gly Phe Thr Tyr Val Ala Pro Lys Lys Cys
155 1 5 10 15
158 <210> SEQ ID NO: 9
159 <211> LENGTH: 14
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161 <213> ORGANISM: Homo sapiens
163 <220> FEATURE:
164 <221> NAME/KEY: MOD_RES
165 <222> LOCATION: (12)..(12)
166 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 12 is phosphorylated
169 <400> SEQUENCE: 9
171 Lys Glu His Met Met Asp Gly Val Thr Thr Arg Thr Phe Cys
172 1 5 10
175 <210> SEQ ID NO: 10
176 <211> LENGTH: 15
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <220> FEATURE:
181 <221> NAME/KEY: MOD_RES
182 <222> LOCATION: (7)..(7)
183 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 7 is phosphorylated
186 <220> FEATURE:
187 <221> NAME/KEY: MOD_RES
188 <222> LOCATION: (9)..(9)
189 <223> OTHER INFORMATION: PHOSPHORYLATION; tyrosine at position 9 is phosphorylated
192 <400> SEQUENCE: 10
194 Asp His Thr Gly Phe Leu Thr Glu Tyr Val Ala Thr Arg Trp Cys
195 1 5 10 15
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 15
200 <212> TYPE: PRT
201 <213> ORGANISM: Homo sapiens
203 <220> FEATURE:
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205 <222> LOCATION: (5)..(5)
206 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 5 is phosphorylated
209 <220> FEATURE:
210 <221> NAME/KEY: MOD_RES
211 <222> LOCATION: (9)..(9)
212 <223> OTHER INFORMATION: PHOSPHORYLATION; serine at position 9 is phosphorylated
215 <400> SEQUENCE: 11
217 Glu Leu Leu Pro Thr Pro Pro Leu Ser Pro Ser Arg Arg Ser Cys
218 1 5 10 15
221 <210> SEQ ID NO: 12
222 <211> LENGTH: 17
223 <212> TYPE: PRT
224 <213> ORGANISM: Homo sapiens

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     226 <220> FEATURE:
     227 <221> NAME/KEY: MOD_RES
     228 <222> LOCATION: (10)..(10)
     229 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 10 is phosphorylated
     232 <220> FEATURE:
     233 <221> NAME/KEY: MOD_RES
     234 <222> LOCATION: (12)..(12)
     235 <223> OTHER INFORMATION: PHOSPHORYLATION; tyrosine at position 12 is phosphorylated
     238 <400> SEQUENCE: 12
     240 Leu Ala Arg His Thr Asp Asp Glu Met Thr Gly Tyr Val Ala Thr Arg
     241 1               5                   10                  15
     244 Cys
     248 <210> SEQ ID NO: 13
     249 <211> LENGTH: 15
     250 <212> TYPE: PRT
     251 <213> ORGANISM: Homo sapiens
     253 <220> FEATURE:
     254 <221> NAME/KEY: MOD_RES
     255 <222> LOCATION: (5)..(5)
     256 <223> OTHER INFORMATION: PHOSPHORYLATION; threonine at position 5 is phosphorylated
     259 <220> FEATURE:
     260 <221> NAME/KEY: MOD_RES
     261 <222> LOCATION: (7)..(7)
     262 <223> OTHER INFORMATION: PHOSPHORYLATION; tyrosine at position 7 is phosphorylated
     265 <400> SEQUENCE: 13
     267 Ser Phe Met Met Thr Pro Tyr Val Val Thr Arg Tyr Tyr Arg Cys
     268 1               5                   10                  15
     271 <210> SEQ ID NO: 14
     272 <211> LENGTH: 14
     273 <212> TYPE: PRT
     274 <213> ORGANISM: Homo sapiens
     276 <220> FEATURE:
     277 <221> NAME/KEY: MISC_FEATURE
     278 <222> LOCATION: (8)..(8)
     279 <223> OTHER INFORMATION: Xaa at position 8 is phosphoserine or phosphothreonine
     282 <220> FEATURE:
     283 <221> NAME/KEY: MISC_FEATURE
     284 <222> LOCATION: (11)..(11)
     285 <223> OTHER INFORMATION: Xaa at position 11 is arginine or lysine
     288 <220> FEATURE:
     289 <221> NAME/KEY: MISC_FEATURE
     290 <222> LOCATION: (1)..(14)
     291 <223> OTHER INFORMATION: Xaa at positions 1-5, 7, 10, and 12-14 = any one of the 20
amino
     292       acids except cysteine
     295 <400> SEQUENCE: 14
W--> 297 Xaa Xaa Xaa Xaa Xaa Pro Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa
     298 1               5                   10
     301 <210> SEQ ID NO: 15
     302 <211> LENGTH: 14
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RAW SEQUENCE LISTING DATE: 10/04/2001
PATENT APPLICATION: US/09/535,364 TIME: 17:45:42

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\10042001\I535364.raw

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     304 <213> ORGANISM: Homo sapiens
     306 <220> FEATURE:
     307 <221> NAME/KEY: MOD_RES
     308 <222> LOCATION: (8)..(8)
     309 <223> OTHER INFORMATION: PHOSPHORYLATION; serine at position 8 is phosphorylated
     312 <220> FEATURE:
     313 <221> NAME/KEY: MISC_FEATURE
     314 <222> LOCATION: (1)..(14)
     315 <223> OTHER INFORMATION: Xaa at positions 1-4, 7, 9, and 11-14 = any one of the 20
amino a
     316       cids except cysteine
     319 <400> SEQUENCE: 15
W--> 321 Xaa Xaa Xaa Xaa Arg Ser Xaa Ser Xaa Pro Xaa Xaa Xaa Xaa
     322 1               5                   10
     325 <210> SEQ ID NO: 16
     326 <211> LENGTH: 14
     327 <212> TYPE: PRT
     328 <213> ORGANISM: Homo sapiens
     330 <220> FEATURE:
     331 <221> NAME/KEY: MISC_FEATURE
     332 <222> LOCATION: (1)..(14)
     333 <223> OTHER INFORMATION: Xaa at positions 1-4, 7, 9, and 11-14 = any one of the 20
amino a
     334       cids except cysteine
     337 <400> SEQUENCE: 16
W--> 339 Xaa Xaa Xaa Xaa Arg Ser Xaa Ser Xaa Pro Xaa Xaa Xaa Xaa
     340 1               5                   10
     343 <210> SEQ ID NO: 17
     344 <211> LENGTH: 14
     345 <212> TYPE: PRT
     346 <213> ORGANISM: Homo sapiens
     348 <220> FEATURE:
     349 <221> NAME/KEY: MISC_FEATURE
     350 <222> LOCATION: (8)..(8)
     351 <223> OTHER INFORMATION: Xaa at position 8 is phosphoserine or phosphothreonine
     354 <220> FEATURE:
     355 <221> NAME/KEY: MISC_FEATURE
     356 <222> LOCATION: (1)..(14)
     357 <223> OTHER INFORMATION: Xaa at positions 1-5, 7, and 10-14 = any one of the 20 amino
acid
     358       s except cysteine
     361 <400> SEQUENCE: 17
W--> 363 Xaa Xaa Xaa Xaa Xaa Pro Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa
     364 1               5                   10
     367 <210> SEQ ID NO: 18
     368 <211> LENGTH: 14
     369 <212> TYPE: PRT
     370 <213> ORGANISM: Homo sapiens
     372 <220> FEATURE:
     373 <221> NAME/KEY: MISC_FEATURE
     374 <222> LOCATION: (8)..(8)
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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 10/04/2001
PATENT APPLICATION: US/09/535,364 TIME: 17:45:43

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\10042001\I535364.raw

L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:1006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47